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Europäisches  
Patentamt

Zweigstelle  
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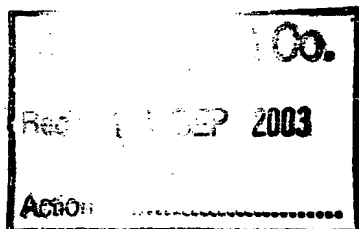
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recherche

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N.86754 JGL

Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°.

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Anmelder/Applicant/Demandeur/Patentinhaber/Propriétaire/Titulaire

ASML Netherlands B.V.

## COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

☐ abstract

☒ title

☒ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract:

2

## REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





DOCUMENTS CONSIDERED TO BE RELEVANT																			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)																
X	PATENT ABSTRACTS OF JAPAN vol. 018, no. 609 (P-1828), 18 November 1994 (1994-11-18) -& JP 06 230194 A (NIPPON TELEGR & TELEPH CORP), 19 August 1994 (1994-08-19) * abstract * * figure 7 * ---	1-8,11, 12	G03F7/20																
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Place of search THE HAGUE		Date of completion of the search 28 August 2003	Examiner Aguilar, M.																
<table border="0"><tr><td>CATEGORY OF CITED DOCUMENTS</td><td>T : theory or principle underlying the invention</td></tr><tr><td>X : particularly relevant if taken alone</td><td>E : earlier patent document, but published on, or</td></tr><tr><td>Y : particularly relevant if combined with another</td><td>after the filing date</td></tr><tr><td>document of the same category</td><td>D : document cited in the application</td></tr><tr><td>A : technological background</td><td>L : document cited for other reasons</td></tr><tr><td>O : non-written disclosure</td><td>-----</td></tr><tr><td>P : intermediate document</td><td>&amp; : member of the same patent family, corresponding</td></tr><tr><td></td><td>document</td></tr></table>				CATEGORY OF CITED DOCUMENTS	T : theory or principle underlying the invention	X : particularly relevant if taken alone	E : earlier patent document, but published on, or	Y : particularly relevant if combined with another	after the filing date	document of the same category	D : document cited in the application	A : technological background	L : document cited for other reasons	O : non-written disclosure	-----	P : intermediate document	& : member of the same patent family, corresponding		document
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O : non-written disclosure	-----																		
P : intermediate document	& : member of the same patent family, corresponding																		
	document																		



DOCUMENTS CONSIDERED TO BE RELEVANT			
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 28 August 2003	Examiner Aguilar, M.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 25 7568

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
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28-08-2003

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## ABSTRACT / ZUSAMMENFASSUNG / ABREGE

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Optical elements such as multi-layer mirrors for EUV lithography machines are provided, the optical elements having at least one layer (4) containing one or more Buckminsterfullerenes. Typically the fullerenes are present as a capping layer (4), which is either provided as the outer capping layer of the optical element or forms a sub-capping layer which is adjacent to an outer capping layer formed of a different material. The fullerene containing layer(s) may alternatively or additionally be present as an interlayer between two layers of a multi-layer mirror.